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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/541,013	
			Filing Date	June 28, 2005	
			First Named Inventor	Eric Henderson	
			Group Art Unit	1641	
			Examiner Name	Unknown	
Sheet	1	of	28	Attorney Docket Number	016348-9048-US00

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RE		"Microbeam Mass Spectrometry" Chemical Science and Technology Laboratory, Surface and Microanalysis Science Division http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm 7/18/2002.
		Abstracts of Papers Part I, 214 th "Abstract 027" ACS National Meeting American Chemical Society, September 1997, 2 pgs.
		ALLISON, D., <i>et al.</i> , "Direct atomic force microscopy imaging of <i>EcoRI</i> endonuclease site specifically bound to plasmid DNA molecules" <i>PNAS USA</i> , 1996, 93:8826-8829.
		ALLISON, D., <i>et al.</i> , "Mapping Individual Cosmid DNAs by Direct AFM Imaging" <i>Genomics</i> , 1997, 41:379-384.
		ALVES, <i>et al.</i> , "Atomic scale imaging of alkanethiolate monolayers at gold surfaces with atomic force microscopy: <i>J. Am. Chem. Soc.</i> , February 1992, 114(4):1222-1227.
		AMRO, <i>et al.</i> , "Patterning surfaces using tip-directed displacement and self-assembly" <i>Langmuir</i> , 2000, 16:3006-3009.
		ANWANDER, <i>et al.</i> , "Surface characterization and functionalization of MCM-41 silicas via silazane silylation" <i>J. Phys. Chem. B.</i> , 2000, 104:3532-3544.
		ARNTZ, <i>et al.</i> , "Label-free protein assay based on a nanomechanical cantilever array" <i>Nanotechnology</i> , 14 (2003) 86-90.
		AUSUBEL, F.M., <i>et al.</i> "Current Protocols in Molecular Biology" 1993 ed. Vol. 1&2, 1993, Green Publishing Associates and Wiley-Interscience.

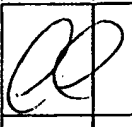


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		BAILEY, C.P., <i>et al.</i> , Cationic oligonucleotides can mediate specific inhibition of gene expression in <i>Xenopus</i> oocytes" <i>Nuc. Acids Res.</i> , 1998, 26(21):4860-4867.
		BAIN, <i>et al.</i> , "Modeling organic surfaces with self-assembled monolayers" <i>Agnew. Chem. Int. Ed. Engl.</i> , 1989, 28(4):506-512.
		BASELT, D.R., <i>et al.</i> , "A biosensor based on magnetoresistance technology" <i>Biosens. Bioelectorn</i> , 1998, 13(7-8):731-739.
		BEDOUELLE, H., "Reagentless fluorescent Immunosensors" <i>Antibody Engineering</i> , IBC's 13 th International Conference, December 2, 2002.
		BELAUBRE, P. <i>et al.</i> , "Fabrication of biological microarrays using microcantilevers" <i>Applied Physics Letters</i> , 5 May 2003, 82(18):3122-3124.
		BENSIMON, A., <i>et al.</i> , "Alignment and sensitive detection of DNA by a moving interface" <i>Science</i> , 1994, Sep 30; 265(5181):2096-2098 [PMID 7522347] Abstract.
		BERGGREN, <i>et al.</i> , "Microlithography by using neutral metastable atoms and self-assembled monolayers" <i>Science</i> , September 1995, 269(5228):1255-1257.
		BERNARD, <i>et al.</i> "Printing patterns of proteins" <i>Langmuir The ACS Journal of Surfaces and Colloid</i> , April 1998, 14(9):2225-2229.
		BINGGELI, <i>et al.</i> , "Influence of capillary condensation of water on nanotribology studied by force microscopy" <i>Appl. Phys. Lett.</i> , July 1994, 65(4):415-417.

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	BINNING, <i>et al.</i> , "Surface studies by scanning tunneling microscopy" <i>Phys. Rev. Lett.</i> , 1982, 49(1):57-61.
	BINNING, G., <i>et al.</i> , "Atomic force microscope" <i>Phys. Rev. Lett.</i> , 1986, 56(9):930-933.
	BISHOP, <i>et al.</i> , "Self-assembled monolayers: recent developments and applications" <i>Colloid & Interface Science</i> , February 1996, 1:127-136.
	BOTTOMLEY, L., "Scanning probe microscopy" <i>Anal. Chem.</i> , June 1998, 70(12):425R-475R.
	BRANDOW, S., <i>et al.</i> , "Metal pattern fabrication using the local electric field of conducting atomic force microscope probe" <i>J. Vac. Sci. Technol.</i> , May/June 1997, 15(3):1455-1459.
	BRENNER, S., <i>et al.</i> , "Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays" <i>Nat. Biotechnol</i> 2000, June 18(6):630-634, 2000.
	BRODY, E., and Gold, L., "Aptamers as therapeutic and diagnostic agents" <i>Molecular Biotechnology</i> , 2000, 74:5-13.
	BRUCKBAUER, <i>et al.</i> , "Writing with DNA and Protein Using a Nanopipet for Controlled Delivery" <i>JACS</i> , 2002, A-B.
	BULYK, <i>et al.</i> , "Quantifying DNA-protein interactions by double-stranded DNA arrays" <i>Nature Biotechnology</i> , June 1999, 17:573-577.

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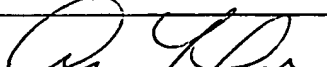
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ER		BUSCH, K.L., "Desorption Ionization Mass Spectrometry," <i>J. Mass Spectrometry</i> (1995) 30:233-240
		BUSTAMANTE C., <i>et al.</i> , "Circular DNA Molecules Imaged in Air by Scanning Force Microscopy" <i>Biochemistry</i> , 1992, 31:22-26
		BUSTAMANTE, C., <i>et al.</i> , "Biochemical and structural applications of scanning force microscopy" <i>Curr. Opin. Struct. Biol.</i> , 1994 4(5):750-760.
		CARR, <i>et al.</i> , "High-selectivity pattern transfer process for self-assembled monolayer electron beam resists" <i>J. Vac. Sci. Technol.</i> , May/June 1997, 15(3):1446-1450.
		CHENG, <i>et al.</i> , "Preparation and hybridization analysis of DNA/RNA from <i>E. coli</i> on microfabricated bioelectronic chips" <i>Nature Biotechnology</i> , 1998, 16:541-546
		CHRISEY <i>et al.</i> , "Fabrication of patterned DNA surfaces" <i>Nucleic Acids Research</i> , (10/1996)24(15):3040-3047.
		CLARK, M.W. <i>et al.</i> , "Nanotechnology tools for functional proteomics analysis" <i>American Biotechnology Laboratory</i> , March 2001, 16-18.
		COLAS, <i>et al.</i> , "Genetic selection of peptide aptamers that recognize an inhibit cyclin-dependent kinase 2", <i>Nature</i> , April 1996 380(11):548-550.
✓		COLLINS, <i>et al.</i> , "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown" <i>Science</i> , April 2001, 292(5517):706-799.

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		COLLINS, <i>et al.</i> , "Nanotube Device" <i>Science</i> , 3 October 1997, 278:100-103.
		COLVIN, <i>et al.</i> "Semiconductor nanocrystals covalently bound to metal surfaces with self-assembled monolayers" <i>J. Am. Chem. Soc.</i> , 1992, 114:5221-5230.
		CUI, Y, <i>et al.</i> , "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species" <i>Science</i> , 2001, 293, 1289-1292.
		DAI, H, <i>et al.</i> , "Controlled chemical routes to nanotube architectures" <i>Physics and Devices, J. Phys. Chem B</i> , 1999, 103:11246-11255.
		DAI, H, <i>et al.</i> , "Probing electrical transport in nanomaterials: conductivity of individual carbon nanotubes" <i>Science</i> , 1996, 272(5261):523-526.
		DAMMER, <i>et al.</i> , "Binding strength between cell adhesion proteoglycans measured by atomic force microscopy" <i>Science</i> , 1995, 267:1173-1175.
		DAMMER, <i>et al.</i> , "Specific antigen/antibody interactions measured by force microscopy" <i>Biophys. J.</i> , 1996, 70:2437-2441.
		DELAMARCHE, E., "Immobilization of antibodies on a photoactive self-assembled monolayer on gold," <i>Langmuir</i> (1996) 12:1997-2006
		DING, Y., OKA, T., <i>et al.</i> , "Near-field stimulated TOF nanometric surface mass spectroscopy: characterization of Nano-localized surfaces" Joint International Meeting - 200th Meeting of the Electrochemical Society, Inc., 52nd Annual Meeting of the International Society of Electrochemistry, San Francisco, California (2001).

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	DING, Y., RUGGERO, M. <i>et al.</i> , "Development of UHV-STM/TOF hybrid mass analyzer system for nano-characterization of metal silicide surfaces" 198th Meeting of the Electrochemical Society, Phoenix, Arizona (2000).
	DeRISI, <i>et al.</i> , "Exploring the Metabolic and Genetic Control of Gene Expression on a Genomic Scale" <i>Science</i> , October 1997, 278:680-686.
	DONG, Y. and SHANNON, C., "Heterogeneous Immunosensing Using Antigen and Antibody Monolayers on Gold Surfaces with Electrochemical and Scanning Probe Detection" <i>Anal. Chem.</i> , 2000, 72:2371-2376.
	DONTHA, N., <i>et al.</i> , "Development of sub-micron patterned carbon electrodes for immunoassays" <i>J. Pharm. Biomed. Analysis</i> , (February 1999) 19:83-91.
	DONTHA, N., <i>et al.</i> , "Generation of Biotin/Avidin/Enzyme Nanostructures with Maskless Photolithography" <i>Anal. Chem.</i> , 1997, 69: 619-2625
	DUBOIS, L. <i>et al.</i> , "Synthesis, Structure, and Properties of Model Organic Surfaces" <i>Annu. Rev. Phys. Chem.</i> , 1992, 43:437-463.
	DURBIN, S., FEHER, G., "Protein crystallization" <i>Annual Review of Phys Chemistry</i> , 1996, 47:171-204.
	FALVO, M.R., <i>et al.</i> , "Bending and buckling of carbon nanotubes under large strain" <i>Nature</i> , 1997, 389:582-584.
	FAN, S., <i>et al.</i> , "Self-oriented regular arrays of carbon nanotubes and their functional devices" <i>Science</i> , 1999, 283, 512.

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		FANG, <i>et al.</i> , "Membrane Protein Microarrays" <i>JACS</i> , 2002, 124(11):2394-2395.
		FARAJIAN, A.A., <i>et al.</i> , "Nonlinear Coherent Transport Through Doped Nanotube Junctions" <i>Physical Review</i> , June 21, 1999, 82(25):5084-5087.
		FEIGON, J. "DNA triplexes, quadruplexes, and aptamers" <i>Clin. Chem.</i> , 1994, 40(4):647-647.
		FLORIN, E., <i>et al.</i> , "Adhesion forces between individual ligand-receptor pairs" <i>Science</i> , 1994, 264:415-417.
		FODOR, S., <i>et al.</i> , "Light-directed spatially addressable parallel chemical synthesis" <i>Science</i> 1991, 251: 767-773.
		FODOR, S., <i>et al.</i> , "Multiplexed biochemical assays with biological chips" <i>Nature</i> , 1993, 364:555-557.
		FRISBIE, C.D., <i>et al.</i> , "Functional group imaging by chemical force microscopy" <i>Science</i> , 1994, 265:2071-2074.
		FRITZ, J., <i>et al.</i> , "Translating biomolecular recognition into nanomechanics" <i>Science</i> , 2000, 316-318.
		FRITZSCHE, W., <i>et al.</i> , "Application of Atomic Force Microscopy to Visualization of DNA, Chromatin and Chromosomes" <i>Critical Reviews™ in Eukaryotic Gene Expression</i> , 1997, 7(3):231-240.

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	FRITZSCHE, W., <i>et al.</i> , "Chicken Erythrocyte Nucleosomes Have a Defined Orientation along the Linker DNA-A Scanning Force Microscopy Study" <i>Scanning</i> , 1997, 19:42-47.
	FRITZSCHE, W., <i>et al.</i> , "Mapping elasticity of rehydration metaphase chromosomes by scanning force microscopy" <i>Ultramicroscopy</i> , 1997, 69:191-200.
	FRITZSCHE, W., <i>et al.</i> , "Ribosome substructure investigated by scanning force microscopy and image processing" <i>Journal of Microscopy</i> , 1998, 189, Pt 1, 50-56.
	FUHRER, <i>et al.</i> , "Crossed Nanotube Junctions" <i>Science</i> , 21 April 2000, 288:494-497.
	FUJIIHARA, <i>et al.</i> , "Effect of capillary force on friction force microscopy: a scanning hydrophilicity microscope" <i>Chemistry Letters</i> , July 1996, 7:499-500.
	GANTZER, C. <i>et al.</i> , "Detection of infectious enteroviruses, enterovirus genomes, somatic coliphages, and bacteroides fragilis phages in treated wastewater," <i>Appl. Environ. Microbiol.</i> (1998) 64:4307-4312
	GAUNTT, C. and HUBER, S., <i>Front Biosci.</i> (2003) 8:E23
	GILLEN, G., BENNETT, J., <i>et al.</i> , "Molecular imaging secondary ion mass spectrometry for the characterization of patterned self-assembled monolayers on silver and gold" <i>Anal. Chemistry</i> , 1994, 66:2170-2174.
	GIRAULT, S., CHASSAING, G. <i>et al.</i> , "Coupling of MALDI-TOF mass analysis to the separation of biotinylated peptides by magnetic streptavidin beads" <i>Anal. Chemistry</i> 1996, 68:2122-2126.

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		GRABAR, <i>et al.</i> , "Preparation and characterization of Au colloid monolayers" <i>Anal. Chem.</i> , 1995, 67(4):735-743.
		HAAB, <i>et al.</i> , "Protein microarrays for highly parallel detection and quantitation of specific proteins and antibodies in complex solutions" <i>Genome Biology</i> , 2001, 2(2)0004.1-0004.13.
		HANSMA, H.G., <i>et al.</i> , "Atomic force microscopy of long and short double-stranded, single-stranded and triple-stranded nucleic acids" <i>Nuc. Acids Res.</i> , 1996, 24(4):713-720.
		HANSMA, H.G., <i>et al.</i> , "Recent advances in atomic force microscopy of DNA" <i>Scanning</i> 1993, 15(5):296-9.
		HANSMA, H.G., SINSHEIMER, R.L., <i>et al.</i> , "Atomic force microscopy of single- and double-stranded DNA" <i>Nucleic Acids Research</i> 1992, 20:3585-90.
		HANSMA, P.K., <i>et al.</i> , "Tapping mode atomic force microscopy in liquids" <i>Appl. Phys. Lett.</i> , 1994, 64(13):1738-1740.
		HELLER, <i>et al.</i> , "Discovery and analysis of inflammatory disease-related genes using cDNA microarrays" <i>PNAS USA</i> , 1997, 94: 2150-2155.
		HENDERSON, E., "Atomic force microscopy of conventional and unconventional nucleic acid structures" <i>Journal of Microscopy</i> , 1992, 77-84.
		HENDERSON, E., "Imaging and nanodissection of individual supercoiled plasmids by atomic force microscopy" <i>Nuc. Acids Res.</i> , 1992, 20(3):445-447.

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				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	10	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	HENDERSON, E., "Imaging of Living Cells by Atomic Force Microscopy" <i>Progress in Surface Science</i> , May 1994, 46(1):39-60.
	HENDERSON, E., "Molecular force detection and spectroscopy with the atomic force microscope" <i>Science Progress</i> , 1998, 81(2):141-151.
	HENDERSON, E., <i>et al.</i> , "Actin Filament Dynamics in Living Glial Cells Imaged by Atomic Force Microscopy" <i>Science</i> , 1992, 257:1944-1946.
	HENDERSON, E., <i>et al.</i> , "New Ribosome Structure" <i>Science</i> , 1984, 255:510-512.
	HENDERSON, E., <i>et al.</i> , "Telomeric DNA oligonucleotides form novel intramolecular structures containing guanine-guanine base pairs" <i>Cell</i> , 1987, 51(6):899-908.
	HENDERSON, <i>et al.</i> , "A method for gold coating experimental detector beampipes" http://www.Ins.cornell.edu/public/CBN/1999/CBN99-7/cbn99-7.pdf , 1999.
	HILLER, <i>et al.</i> , "Microarrayed allergen molecules: diagnostic gatekeepers for allergy treatment" <i>FASEB</i> , 2002, 16:414-416.
	HINTERDORFER, P. <i>et al.</i> , "Detection and localization of individual antibody-antigen recognition events by atomic force microscopy" <i>PNAS</i> , 1996, 93:3477-3481.
	HOH, J.H., and HANSMA, P.K., "Atomic force microscopy for high resolution imaging in cell biology" <i>Trends in Cell Biology</i> , 1992, 2:208-213.



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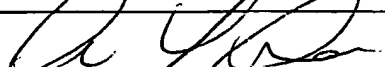
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	HOH, J.H., <i>et al.</i> , "Atomic force microscopy and dissection of gap junctions" <i>Science</i> , 1991, 1405-1408.
	HOH, J.H., <i>et al.</i> , "Quantized adhesion detected with the atomic force microscope" <i>J. Am. Chem. Soc.</i> , 1992, 114:4917-4918.
	HOLLAND, Vacuum Deposition Of Thin Films (Wiley, New York, NY, 1956)
	HONG, <i>et al.</i> , "A new tool for studying the in situ growth processes for self-assembled monolayers under ambient conditions" <i>Langmuir</i> , 1999, 15:7879-7900.
	HONG, <i>et al.</i> , "Multiple ink nanolithography: toward a multiple-pen nano-plotter" <i>Science</i> , 1999, 286:523-525.
	HONG, S. <i>et al.</i> "A Nanoplotter with Both Parallel and Serial Writing Capabilities" <i>Science</i> , June 9, 2000, 288:1808-1811.
	HOVIS, <i>et al.</i> , "Cyloaddition chemistry and formation of ordered organic monolayers on silicone (001) surfaces" <i>Surface Science</i> , 1998, 402-404, pgs. 1-7.
	HOVIS, <i>et al.</i> , "Structure and bonding of ordered organic monolayers of 1,5-cyclooctadiene on the silicon (001) Surface" <i>J. Phys. Chem. B.</i> , 1997, 101: 9581-9585.
	HU, <i>et al.</i> , "Imaging the condensation and evaporation of molecularly thin films of water with nanometer resolution" <i>Science</i> , 1995, 268(5208):267-269.

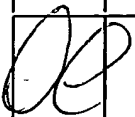

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		HUCK, <i>et al.</i> , "Patterned polymer multilayers as etch resists" <i>Langmuir</i> , 1999, 15:6862-6867.
		IVANISEVIC, <i>et al.</i> , "Dip-Pen Nanolithography on Semiconductor Surfaces" <i>J. Am. Chem. Soc.</i> , 2001, 123:7887-7889.
		IYER, <i>et al.</i> , "The Transcription Program in the Response of Human Fibroblasts to Serum" <i>Science</i> , 1999, 283(5398):83-87.
		JACKMAN, <i>et al.</i> , "Fabrication of submicrometer features on curved substrates by microcontact printing" <i>Science</i> , 1995, 269: 664-666.
		JAMES, <i>et al.</i> , "Patterned protein layers on solid substrates by thin stamp microcontact printing" <i>Langmuir</i> , 1998, 14:741-744.
		JANES, <i>et al.</i> , "Electronic conduction through 2D arrays of nanometer diameter metal clusters" <i>Superlattices and Microstructures</i> , 1995, 18(4):275-282.
		JASCHKE, <i>et al.</i> , "Deposition of organic material by the tip of a scanning force microscope" <i>Langmuir</i> , 1995, 11:1061-1064.
		JIN, X., UNERTL, W., "Submicrometer modification of polymer surfaces with a surface force microscope" <i>Applied Physics Letters</i> , 1992, 61(6): 657-659.
		JONES, V., <i>et al.</i> , "Microminiaturized Immunoassays Using Atomic Force Microscopy and Compositionally Patterned Antigen Arrays 66" <i>Anal. Chem.</i> , 1998, 70(7):1233-1241.

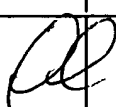

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				First Named Inventor	Eric Henderson
				Group Art Unit	1641
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	KARPOVICH, <i>et al.</i> , "Direct measurement of the adsorption kinetics of alkanethiolate self-assembled monolayers on microcrystalline gold surface" <i>Langmuir</i> , 1994, 10:3315-3322.
	KIM, <i>et al.</i> , "Nanotube nanotweezers" <i>Science</i> , 10 December 1999, 286:2148-2150.
	KNEZEVIC <i>et al.</i> , "Proteomic profiling of the cancer microenvironment by antibody arrays" <i>Proteomics</i> , 2001, 1:1271-1278.
	KOCHANEK, <i>et al.</i> , "Transcriptional silencing of human ALU sequences and inhibition of protein binding in the box B regulatory elements by 5'CG3" methylation" <i>FEBS Lett.</i> , 1995, 360(2):115-120 [PMID 7875314] Abstract.
	KOMEDA, <i>et al.</i> , "Octadecyltrichlorosilane self-assembled-monolayer islands as a self-patterned-mask for HF etching of SiO ₂ on Si" <i>J. Vac. Sci. Technol A.</i> , 1998, 16(3):1680-1685.
	KONG, <i>et al.</i> , "Nanotube Molecular Wires as Chemical Sensors" <i>Science</i> , 28 January 2000, 287:622-625.
	KUMAR, <i>et al.</i> , "The use of self-assembled monolayers and a selective etch to generate patterned gold features" <i>J. Am. Chem. Soc.</i> , 1992, 114:9188-9189.
	LAHIRI, <i>et al.</i> , "Patterning ligands on reactive SAMs by microcontact printing" <i>Langmuir</i> , 1999, 15:2055-2060.
	LAIBINIS <i>et al.</i> , "a-terminated alkanethiolate monolayers on surfaces of copper, silver, and gold have similar wettabilities" <i>J. Am. Chem. Soc.</i> , 1992, 114: 1990-1995.

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	LAL, R. and JOHN, S.A., "Biological applications of atomic force microscopy" <i>Am J. Physiology</i> , 1994, 266(1):1-21.
	LANIO, T., <i>et al.</i> , "PCR-based random mutagenesis method using spiked oligonucleotides to randomize selected parts of gene without any wild-type background" <i>Biotechniques</i> , 1998, 25(6):958-965.
	LEE, <i>et al.</i> , "Nanometer-scale lithography on H-passivated Si(100) by atomic force microscope in air" <i>J. Vac. Sci. Technol. A.</i> , 1997, 15(3):1451-1454.
	LEE, G. <i>et al.</i> "Direct measurement of the forces between complementary strands of DNA" <i>Science</i> , 1994, 266:771-773,
	LERCEL, <i>et al.</i> "Self-assembled monolayer electron-beam resists on GaAs and SiO ₂ " <i>J. Vac. Sci. Technol. B.</i> , 1993, 11(6): 2823-2828.
	LERCEL, <i>et al.</i> , "Sub-10nm lithography with self-assembled monolayers" <i>Appl. Phys. Lett.</i> , 1996, 68(11):1504-1506.
	LI, Y. <i>et al.</i> , "Electrochemical AFM "Dip-Pen" Nanolithography" <i>J. Am. Chem., Soc.</i> 2001, 123:2105-2106.
	LIU, <i>et al.</i> , "Nanofabrication of self-assembled monolayers using scanning probe lithography" <i>Acc. Chem. Res.</i> , 2000, 33(7):457-466.
	LO, <i>et al.</i> , "Organic and inorganic contamination on commercial AFM cantilevers" <i>Langmuir</i> , 1999, 15:6522-6526.

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	LÜTHI, <i>et al.</i> , "Parallel nanodevice fabrication using a combination of shadow mask and scanning probe methods: <i>Applied Physics Letters</i> , 1999, 75(9):1314-1316.
	LUTWYCHE, <i>et al.</i> , "5X5 2D AFM cantilever arrays a first step toward Terabit storage device" <i>Sensors and Actuators</i> , 1999, 73:89-94.
	LYNCH, M., <i>et al.</i> , "A Reliable Preparation Method for Imaging DNA by AFM" <i>Microscopy Today</i> , 1999, 99(9) 1 pg.
	LYUBCHENKO, Y.L., <i>et al.</i> , "Atomic force microscopy of DNA and bacteriophage in air, water and propanol: The role of adhesion forces" <i>Nuc. Acids Res.</i> , 1993, 21(5):1117-1123.
	MACAYA, <i>et al.</i> , "Thrombin-binding DNA aptamer forms a unimolecular quadruplex structure in solution" <i>PNAS USA</i> , April 1993, 90:3745-3749.
	MacBEATH, G. and SCHREIBER, S.L., "Printing Proteins as Microarrays for High-Throughput Function Determination" <i>Science</i> , 8 September 2000, 289:1760-1763.
	MAGNO, R., BENNETT, B., "Nanostructure patterns written in III-V semiconductors by an atomic force microscope" <i>Applied Physics Letters</i> , 1997, 70(14):1855-1857.
	MALMBORG, <i>et al.</i> , "Real Time Analysis of Antibody-Antigen Reaction Kinetics", <i>Scand. J. Immunol.</i> , 1992, 35:634-650.
	MARSH, T.C., <i>et al.</i> , "A new DNA nanosctructure imaged by scanning probe microscopy" <i>Nuc. Acids Res.</i> 1995, 23(4):696-700.

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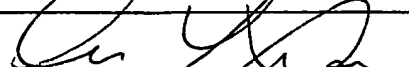
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		MARSH, T.C., <i>et al.</i> , "G-wires: Self-assembly of a telomeric oligonucleotide, d(GGGGTTGGGG), into large superstructures" <i>Biochemistry</i> 1994, 33:10718-10724.
		MARTIN, B., <i>et al.</i> , "Ortogonal Self-Assembly on Colloidal Gold-Platinum Nanorods" <i>Advanced Materials</i> , 1999, 11:1021.
		MATTEUCCI, <i>et al.</i> , "Synthesis of deoxyoligonucleotides on a polymer support 1" <i>J. Am. Chem. Soc.</i> , 1981, 103:3185-3191.
		MAYNOR, <i>et al.</i> , "Au :Ink" for AFM "Dip-Pen" Nanolithography" <i>Langmuir</i> , 2001, 17:2575-2579.
		MAZZOLA, L., "Discrimination of DNA hybridization using chemical force microscopy" <i>Biophysical Journal</i> , 1999, 76:2922-2933.
		MAZZOLA, L., "Imaging biomolecule arrays by atomic force microscopy" <i>Biophysical Journal</i> , 1995, 68:1653-1660.
		MEISTER, <i>et al.</i> , "Nanoscale Dispensing of Liquids through Cantilevered Probes" <i>MNE '02</i> , Lugano, Switzerland, 16-19 September 2002.
		MENDOZA, <i>et al.</i> , "High-Throughput Microarray-Based Enzyme-Linked Immunosorbent Assay (ELISA)" <i>BioTechniques</i> , 1994, 27(4):778-788.
		MEYER, G. and N.M. AMER, "Novel optical approach to atomic force microscopy" <i>Appl. Phys. Lett.</i> , 1988, 53:1045-1047.

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	MINNE, <i>et al.</i> , "Centimeter scale atomic force microscope imaging and lithography" <i>Applied Physics Letters</i> , 1998, 73(12):1742-1744.
	MINNE, S.C., <i>et al.</i> , "Automated parallel high-speed atomic force microscopy" <i>Appl. Phys. Lett.</i> , 1998, 72(18):2340-2342.
	MIRKIN, <i>et al.</i> , "Dip-Pen Nanolithography: Controlling Surface Architecture on the Sub-100 Nanometer Length Scale" <i>Chemphyschem</i> , 2001, 2:37-39.
	MIRKIN, <i>et al.</i> , "Programming the Assembly of Two- and Three-Dimensional Architectures with DNA and Nanoscale Inorganic Building Blocks" Invited Contribution from Recipient of ACS Award in Pure Chemistry" <i>Inorg. Chem.</i> , 2000, 39:2258-2272.
	MOSHER, C., <i>et al.</i> , "NanoArrays, The Next Generation Molecular Array Format for High Throughput Proteomics, Diagnostics and Drug Recovery" <i>JALA</i> , 2000, 5(5):75-83.
	MOY, <i>et al.</i> , "Intermolecular Forces and Energies Between Ligands and Receptors" <i>Science</i> , 1994, 266:257-259.
	MOY, V.T., <i>et al.</i> , "Probing the forces between complimentary strands of DNA with the atomic force microscope" <i>SPIE</i> , 1995, 2384:2-12.
	MUELLER, <i>et al.</i> , "Atomic force microscopy deposition of poly-l-lysine structures onto lipid bilayers supported by mica" <i>Langmuir</i> , 2000, 16:9568-9570.
	MÜLLER, <i>et al.</i> , "Nanostructuring of alkanethiols with ultrastrap field emitters" <i>J. Vac. Sci. Technol. B.</i> , 1995, 13(6):2846-2849.

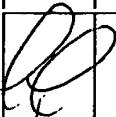

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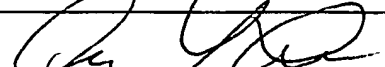
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	18	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	MURRAY, <i>et al.</i> , "Atomic force microscopy of biochemically tagged DNA" <i>Proc., Natl., Acad. Sci.</i> , 1993, 90:3811-3814.
	MUSIL, C., "Nanostructuring of gold electrodes for immunosensing applications: <i>J. Vac. Sci. Technol. B.</i> , 1995, 13(6):2781-2786.
	NIU, <i>et al.</i> , "Atomic force microscopy of DNA-colloidal gold and DNA-protein complexes" <i>SPIE Advances in DNA Sequencing Technology</i> , 1993, 1891:71-77.
	NOY, <i>et al.</i> , "Chemical force microscopy: exploiting chemically-modified tips to quantify adhesion, friction, and functional group distributions in molecular assemblies" <i>J. Am. Chem.</i> , 1995, 117:7943-7951.
	NOY, <i>et al.</i> , "Chemically-sensitive imaging in tapping mode by chemical force microscopy: relationship between phase lag adhesion" <i>Langmuir</i> , 1998, 14:1508-1511.
	NUZZO, R., "Spontaneously organized molecular assemblies. 3. Preparation and properties of solution adsorbed monolayers of organic disulfides on gold surfaces" <i>J. Am. Chem. Soc.</i> , 1987, 109:2358-2368.
	NYFFENEGGER, <i>et al.</i> , "Nonometer scale surface modification using the scanning probe microscope: progress since 1991" <i>Chem. Rev.</i> , 1997, 97:1195-1230.
	O'BRIEN, J., <i>et al.</i> , "Immunosensing Platforms Using Spontaneously Absorbed Antibody Fragments on Gold" <i>Analytical Chemistry</i> , 2000, 72(4)703-710 [PMID 10701253] Abstract.
	OSHIO, T. <i>et al.</i> , "Atomic force microscopy detection system using an optical fiber heterodyne interferometer free from external disturbances" <i>Ultramicroscopy</i> 42-44 (July 1992) 310-314.

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				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	19	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		PAWELETZ, <i>et al.</i> , "Reverse phase protein microarrays which capture disease progression shoe activation of pro-survival pathways at the cancer invasion front" <i>Oncogen</i> , 2001, 20:1981-1989.
		PAWLAK, <i>et al.</i> , "Zeptosens' protein microarrays: A novel high performance microarray platform for low abundance protein analysis" <i>Proteomics</i> , 2002, 2:383-393.
		PERKINS, <i>et al.</i> , "Fabrication of 15 nm wide trenches in Si by vacuum scanning tunneling microscope lithography of an organosilane self-assembled film and reactive ion etching" <i>Appl. Phys. Lett.</i> , 1996, 68(4):550-552.
		PFANNSCHMIDT, <i>et al.</i> , "Sequence-specific labeling of superhelical DNA by triple helix formation and psoralen crosslinking" <i>Nucleic Acids Research</i> , 1996 24(9):1702-1709.
		PINER, <i>et al.</i> , "Improved imaging of soft materials with modified AFM tips" <i>Langmuir</i> , 1999, 15:5457-5460.
		PINER, R.D., <i>et al.</i> , "Dip-Pen Nanolithography" <i>Science</i> , January 29, 1999, 283(5402):661-663.
		PINER, Richard, "Effect of water on lateral force microscopy in air" <i>Langmuir</i> , 1997, 13:6864-6868.
		PUTNAM, C.A.J., "Tapping atomic force microscopy in liquids" <i>Appl. Phys. Lett.</i> , 1994, 64(18):2454-2456.
		QIN, <i>et al.</i> , "Fabrication of ordered two-dimensional arrays of micro- and nanoparticles using patterned self-assembled monolayers as templates: <i>Adv. Matter</i> , 1999, 11(17):1433-1437.


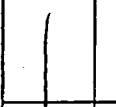
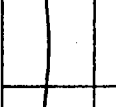
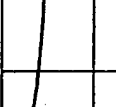
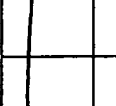
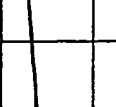
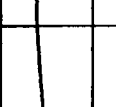
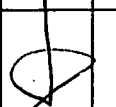
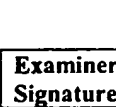
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	20	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
	RANKIN, P.C. WILSON, A.T. "The Surface Chemistry of the Mica-Aluminum-Sulfate System" <i>Journal of Colloid and Interface Science</i> , (1969) 30(3):277-282.
	REED, <i>et al.</i> , "Conductance of molecular junction" <i>Science</i> , 1997, 278:252-254.
	RIEF, <i>et al.</i> , "Reversible unfolding of individual Titin Ig-domains by AFM" <i>Science</i> , 1997, 276:1109-1111.
	RIEF, M., <i>et al.</i> , "Single Molecule Force Spectroscopy on Polysaccharides by Atomic Force Microscopy" <i>Science</i> , 1997, 275:1295-1297.
	RIEF, M., <i>et al.</i> , "The mechanical stability of immunoglobulin and fibronectin III domains in the muscle protein titin measured by atomic force microscopy" <i>Biophysical Journal</i> , 1998, 3008-3014.
	ROBINSON, <i>et al.</i> , Autoantigen microarrays for multiplex characterization of autoantibody responses" <i>Nature Medicine</i> , March 2002, 8(3):1-7.
	SANTOS, <i>et al.</i> , "Probing hydrophobic interactions of surfaces and macromolecules with atomic force microscope" <i>Book of Abstracts</i> , 214 ACS National meeting, September 7-11, 1997, PHYS-248.
	SASTRY, <i>et al.</i> , "Formation of patterned hetrocolloidal nanoparticle thin films" <i>Langmuir</i> , 2000, 16:3553-3556.
	SCHAUS, S., <i>et al.</i> , "Cell Viability and Probe-Cell Membrane Interactions of XR1 Glial Cells Imaged by Atomic Force Microscopy" <i>Biophysical Journal</i> , September 1997, 73:1205-1214.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	21	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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	SCHENA, <i>et al.</i> , "Parallel human genome analysis : Microarray-based expression monitoring of 1000 genes" <i>PNAS USA</i> , 1996, 93:10614-10619.
	SCHENA, M., <u>Microarray Biochip Technology</u> , Eaton Publishing, Natick, MA 2000.
	SCHOER, <i>et al.</i> , "Scanning probe lithography. 4. Characterization of scanning tunneling microscope-induced patterns in <i>n</i> -Alkethiol self-assembled monolayers" <i>Langmuir</i> , 1997, 13:2323-2332.
	SCHUMACHER, <i>et al.</i> , "Nanomachining of mesoscopic electronic devices using an atomic force microscope" <i>Applied Physics</i> , 1999, 75(8):1107-1109.
	SCHWARTZ, <i>et al.</i> "Meniscus Force Nanografting: Nanoscopic Patterning of DNA" <i>Langmuir</i> , 2001, 17:5971-5977.
	SCHWARTZ, <i>et al.</i> , "Molecular Transport from an Atomic Force Microscope Tip: A Comparative Study of Dip-Pen Nanolithography" <i>Langmuir</i> , American Chemical Society, November 6, 2001
	SCHWEITZER, <i>et al.</i> , "Multiplexed protein profiling on microarrays by rolling-circle amplification" <i>Nature Biotechnology</i> , April 2002, 20:359-365.
	SHAIU, W.L., <i>et al.</i> , "Atomic Force Microscopy of Oriented Linear DNA Molecules Labeled with 5nm Gold Spheres" <i>Nuc. Acids Res.</i> , 1993, 21(1):99-103.
	SHAIU, W.L., <i>et al.</i> , "Visualization of circular DNA molecules labeled with colloidal gold spheres using atomic force microscopy" <i>J. Vac. Sci. Technol. A.</i> , 11(4):820-823.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	22	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	SHEEHAN, <i>et al.</i> , "Thiol diffusion and the role of humidity in "dip pen" nanolithography" <i>Physical Review Letters</i> , 15 April 2002, 88(15):156104-1-156104-4.
	SHEEN, <i>et al.</i> , "A new class of organized self-assembled monolayers: alkane thiols on GaAs (100)" <i>J. Am. Chem. Soc.</i> , 1992, 114:1514-1515.
	SHERMAN, Chemical Vapor Deposition For Microelectornices: Principles, Technology and Applications (Noyes, Park Ridges, NJ, 1987).
	SHLYAKHTENKO, L.S., <i>et al.</i> , "Structure and dynamics of supercoil-stabilized DNA cruciforms" <i>J. Mol. Biol.</i> , 1998, 280(1):61-72.
	SHLYAKHTENKO, L.S., GALL, A.A., <i>et al.</i> , "Atomic force microscopy imaging of DNA covalently immobilized on a functionalized mica substrate" <i>Biophysical Journal</i> , July 1999, 77:568-576.
	SILZEL, <i>et al.</i> , "Mass-sensing, multianalyte microarray immunoassay with imaging detection" <i>Clinical Chemistry</i> , 1998, 44(9):2036-2043.
	SMITH <i>et al.</i> , "Overstretching B-DNA: the elastic response of individual double-stranded and single stranded DNA molecules" <i>Science</i> , 9 February 1996, 271:795-799.
	SNOW, <i>et al.</i> , "High speed patterning of a metal silicide using scanned probe lithography" <i>Applied Physics Letters</i> , 1999, 75(10):1476-1478.
	SOH, H., <i>et al.</i> , "Integrated nanotube circuits: controlled growth and ohmic contacts to single-walled-carbon nanotubes" <i>Appl. Phys. Letts.</i> , 1999, 75(5): 627-629.

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				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	23	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
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		SONDAG-HUETHORST, <i>et al.</i> , "Generation of electrochemically deposited metal patterns by means of electron beam (nano)lithography of self-assembled monolayer resists" <i>Appl. Phys. Lett.</i> 1994, 64(3):285-287.
		SOUTHERN, E.M., "Detection of specific sequences among DNA fragments separated by gel electrophoresis" <i>J. Mol. Biol.</i> 1975, 98:503-517.
		Spectroscopy Europe – News February/March 2002, 6 pages, http://www.spectroscopyeurope.com/news14_1.html
		SPENCE, J., WEIERSTALL, U., <i>et al.</i> , " Atomic species identification in scanning tunneling microscopy by time of flight spectroscopy" <i>J. Vac. Sci. Tech.</i> , 1996, B14(3):1587-1590.
		SREEKUMAR, <i>et al.</i> , "Profiling of cancer cells using protein microarrays: Discovery of novel radiation-regulated proteins" <i>Cancer Research</i> , 2001, 61:7585-7593.
		STEINER, <i>et al.</i> , "Adsorption of alkanenitriles and alkanedinitriles on gold and copper" <i>Langmuir</i> , 1992, 8:2271-2777.
		STÖCKLE, R., SETZ, P. "Nanoscale Atmospheric Pressure Laser Ablation-Mass Spectrometry" <i>Anal. Chem.</i> , 2001, 73(7):1399-1402.
		SU, <i>et al.</i> , "Moving beyond Molecules: Patterning Solid-State Features via Dip-Pen Nanolithography with Sol-Based Inks" <i>JACS</i> , 2002, 124(8):1560-1561.
		SUN, <i>et al.</i> , "Nanoscale Molecular Patterns Fabricated by Using Scanning Near-Field Optical Lithography" <i>JACS</i> , 2002, 124(11):2414-2415.

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				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
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Sheet	24	of	28	Attorney Docket Number	016348-9048-US00

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	TANG, K., FU, D., <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of immobilized duplex DNA probes" <i>Nucleic Acids Research</i> , 1995, 23(16):3126-3131.
	TANS, <i>et al.</i> , "Room-temperature transistor based on a single carbon nanotube" <i>Nature</i> , 7 May 1998, 393:49-52.
	TARLOV, M.J., NEWMAN, J.G., <i>et al.</i> , "Static secondary ion mass spectrometry of self-assembled alkanethiol monolayers on gold" <i>Langmuir</i> , 1992, 8:1398-1405.
	TIEN, <i>et al.</i> , "Microfabrication through electrostatic self-assembly" <i>Langmuir</i> , 1997, 13:5349-5355.
	TROUGHTON, E., BAIN, C., <i>et al.</i> , "Monolayer films prepared by the spontaneous self-assembly of symmetrical and unsymmetrical dialkyl sulfides from solution onto gold substrates: Structure, properties and reactivity of constituent functional groups" <i>Langmuir</i> , 1988, 4:365-385.
	TSUKAMOTO, <i>et al.</i> "Twin-probe scanning tunneling microscope" <i>Rev. Sci. Instrum.</i> , July 1991, 62(7):767-1771.
	UETZ, P., <i>et al.</i> , "A comprehensive analysis of protein-protein interactions in <i>Saccharomyces cerevisiae</i> " <i>Nature</i> , 10 February 2000, 403(6770):623-627.
	ULMAN, Abraham, "Formation and structure of self-assembled monolayers" <i>Chem. Rev.</i> , 1996, 96:1533-1554.
	ULMAN, An Introduction To Ultrathin Organic Films: From Langmuir-Blodgett to Self-Assembly (Academic, Boston 1991) (Alkanethiols on gold).

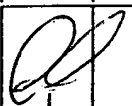

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	VESENKA, J. <i>et al.</i> , "A substrate preparation for reliable imaging of DNA molecules with the scanning force microscope" <i>Ultramicroscopy</i> , 1992, 42-44:1243-1249.
	VESENKA, J., <i>et al.</i> , "Colloidal gold particles as an incompressible atomic force microscope imaging standard for assessing the compressability of biomolecules" <i>Biophys. J.</i> , 1993, 65:992-997.
	VESENKA, J., <i>et al.</i> , "Combining optical and atomic force microscopy for life sciences research" <i>BioTechniques</i> , 1995, 19(2):240-253.
	VETTIGER, <i>et al.</i> , "Ultrahigh density, high-data-rate NEMS-based AFM data storage system" <i>Microelectronic Engineering</i> , 1999, 46:11-17.
	VEZENOV, Dmitri, "Force titrations and ionization state sensitive imaging of functional groups in aqueous solutions by chemical force microscopy" <i>J. Am. Chem. Soc.</i> , 1997, 119:2006-2015.
	VOSSMEYER, <i>et al.</i> , "Combinatorial approaches toward patterning nanocrystals" <i>Journal of Applied Physics</i> , 1998, 84(7):3664.
	WADU-MESTHRIGE, <i>et al.</i> , "Fabrication and imaging of nanometer-sized protein patterns" <i>Langmuir</i> , 1999, 15:8580-8583.
	WALLRAFF, <i>et al.</i> , "Lithographic imaging techniques for the formation of nanoscopic features" <i>Chem. Rev.</i> , 1999, 99:1801-1821.
	WALTERS, D.A., HAMPTON, A.D., <i>et al.</i> "Atomic force microscope integrated with a scanning electron microscope for tip fabrication" <i>Applied Physics Letters</i> , 8 August 1994, 65(6):787-789.

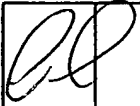

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				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	26	of	28	Attorney Docket Number	016348-9048-US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		WANG, <i>et al.</i> , "Nanometer scale patterning and pattern transfer on amorphous Si, crystalline Si, and SiO ₂ surfaces using self-assembled monolayers" <i>Appl. Phys. Lett.</i> , 1997, 70(12):1593-1595.
		WEIERSTALL, U. SPENSE, J. "Atom species identification in STM using an Imaging Atom-Probe technique" <i>Surface Science</i> 1998, 398: 267-279.
		WHITESIDES, <i>et al.</i> , "Self-assembled monolayers and lithography" <i>Nanophase Chemistry</i> 1995, 39: 109-122.
		WILBUR, <i>et al.</i> , "Scanning force microscopes can image patterned self-assembled monolayers" <i>Langmuir</i> , 1995, 11:825-831.
		WILLIAMSON, <i>et al.</i> , "G-quartets in biology: Reprise" <i>PNAS USA</i> , 15 April 1993, 90(8):3124-3124.
		WILLIAMSON, <i>et al.</i> , "Monovalent cation-induced structure of telomeric DNA: The G-quartet model" <i>Cell</i> , 1989, 59(5):871-880.
		WILSON, <i>et al.</i> , "Surface organization and nanopatterning of collagen by dip-pen nanolithography" <i>PNAS</i> , November 20, 2001, 98(24):13660-13664.
		WONG, S., <i>et al.</i> , "Covalently functionalized nanotubes as nanometre-sized probes in chemistry and biolog" <i>Nature</i> , 1998, 394:52-55.
		WONG, S., <i>et al.</i> , "Covalently functionalized single-walled carbon nanotube probe tips for chemical force microscopy" <i>Journal of the American Chemical Society</i> , 1998, 120:8557-8558.

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		WONG, S., <i>et al.</i> , "Functionalization of carbon nanotube AFM probes using tip-activated gases" <i>Chem Physics Letters</i> , 1999, 306:219-225.
		XIA, <i>et al.</i> , "A selective etching solution for use with patterned self-assembled monolayers of alkanethiolates on gold" <i>Chem. Mater.</i> , 1995, 7:2332-2337.
		XIA, <i>et al.</i> , "Complex optical surfaces formed by replica molding against elastomeric masters" <i>Science</i> , 1996, 273: 347-349.
		XIA, <i>et al.</i> , "Pattern transfer: self-assembled monolayers as ultrathin resists" <i>Microelectronic Engineering</i> , 1996, 32:255-268.
		XIA, <i>et al.</i> , "Soft lithography" <i>Agnew Chem. Int. Ed.</i> , 1998, 37:551-575.
		XIA, <i>et al.</i> , "Unconventional methods for fabricating and patterning nanostructures" <i>Chem. Rev.</i> , 1999, 99:1823-1848.
		XU, <i>et al.</i> , "Fabrication of nanometer scale patterns within self-assembled monolayers by nanografting" <i>Langmuir</i> , 1999, 15:7244-7251.
		XU, <i>et al.</i> , "Nanometer-scale fabrication by simultaneous nanoshaving and molecular self-assembly" <i>Langmuir</i> , 1997, 13:127-129.
		XU, <i>et al.</i> , "Wetting and capillary phenomena of water on mica" <i>J. Phys. Chem. B.</i> , 1998, 102:540-548.

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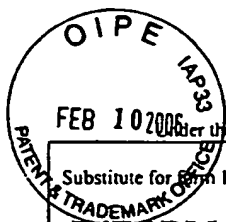
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		YAN, <i>et al.</i> "Patterning a performed, reactive SAM using microcontact printing" <i>J. Am. Chem. Soc.</i> , 1998, 120:6179-6180.
		YAN, <i>et al.</i> , "Patterning thin films of poly(ethylene imine) on a reactive SAM using microcontact printing" <i>Langmuir</i> , 1999, 15:1208-1214.
		YING, <i>et al.</i> , "Programmable Delivery of DNA through a Nanopipet" <i>Anal. Chem.</i> , 2002, 74:1380-1385.
		YOUIL, R., "Screening for mutations by enzyme mismatch cleavage with T4 endonuclease VII <i>PNAS USA</i> , 1995, 92(1):87-91.
		ZHONG, Q., <i>et al.</i> , "Fractured polymer/silica fiber surface studied by tapping mode atomic force microscopy" <i>Surf. Sci. Lett.</i> , January 3, 1993, 290: L 688-L692.
		ZHU, <i>et al.</i> , "Analysis of yeast protein kinases using protein chips" <i>Nature Genetics</i> , 2000, 26:283-289.
		ZHU, <i>et al.</i> , "Global Analysis of Protein Activities Using Proteome Chips" <i>Science</i> , September 2001, 293(14):2101-2105.

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U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
RE		4,728,591	Clark et al.	3/1/1988
		5,106,729	Lindsay et al.	4/21/1992
		5,138,174	Tang	8/11/1992
		5,143,854	Pirrung et al.	9/1/1992
		5,150,392	Hohn et al.	9/22/1992
		5,304,487	Wilding et al.	4/19/1994
		5,314,829	Coles	5/24/1994
		5,346,683	Green et al.	9/13/1994
		5,363,697	Nakagawa	11/15/1994
		5,372,930	Colton et al.	12/13/1994
		5,384,261	Winkler et al.	1/24/1995
		5,440,122	Yasutake	8/8/1995
		5,443,791	Cathcart et al.	8/22/1995
		5,445,934	Fodor et al.	8/29/1995
		5,445,971	Rohr, T.	8/29/1995
		5,453,970	Rust et al.	9/26/1995
		5,467,642	Hosaka et al.	6/9/1998
		5,472,881	Beebe et al.	12/5/1995
		5,482,601	Ohshima, et al.	1/9/1996
		5,514,540	Teoule et al.	5/7/1996
		5,514,550	Findlay et al.	5/7/1996
✓		5,519,212	Elings et al.	5/21/1996

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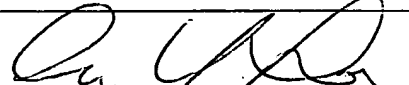
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U.S. PATENT DOCUMENTS				
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ae		5,532,128	Eggers et al.	7/2/1996
		5,571,639	Hubbell et al.	11/5/1996
		5,601,982	Sargent et al.	2/11/1997
		5,604,097	Brenner	2/18/1997
		5,620,854	Holzrichter et al.	4/15/1997
		5,666,190	Quate et al.	9/9/1997
		5,670,322	Eggers et al.	9/23/1997
		5,688,486	Watson et al.	11/1/8/1997
		5,720,928	Schwartz	2/24/1998
		5,744,305	Fodor et al.	4/28/1998
		5,753,088	Olk, C.	5/19/1998
		5,760,300	Kajimura, H.	6/2/1998
		5,763,768	Henderson et al.	6/9/1998
		5,789,167	Konrad	8/4/1998
		5,800,992	Fodor et al.	9/1/1998
		5,804,445	Brasier	9/8/1998
		5,837,832	Chee et al.	11/17/1998
		5,840,862	Bensimon et al.	11/24/1998
		5,846,724	Bensimon et al.	12/8/1998
		5,851,769	Gray et al.	12/22/1998
		5,866,328	Bensimon et al.	2/2/1999
		5,866,434	Massey et al.	2/2/1999


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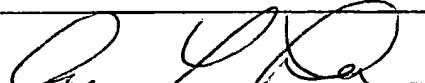
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		5,874,219	Rava et al.	2/23/1999
		5,874,668	Xu et al.	2/23/1999
		5,965,133	Cantor et al.	10/12/1999
		5,981,733	Gamble et al.	11/9/1999
		5,985,356	Schultz et al.	11/16/1999
		5,992,226	Green et al.	11/30/1999
		5,993,627	Anderson et al.	11/30/1999
		6,004,617	Schultz et al.	12/21/1999
		6,024,925	Little et al.	2/15/2000
		6,033,911	Schultz et al.	3/7/2000
		6,045,671	Wu et al.	4/4/2000
		6,080,586	Baldeschwieler et al.	6/27/2000
		6,083,763	Balch	7/4/2000
		6,087,274	Tonucci et al.	7/11/2000
		6,110,426	Shalon et al.	8/29/2000
		6,123,819	Peeters	9/26/2000
		6,143,574	Karlsson et al.	11/7/2000
		6,146,899	Porter et al.	11/14/2000
		6,159,742	Lieber et al.	12/12/2000
		6,171,797 B1	Perbost	1/9/2001
		6,180,114	Yager	1/30/2001
		6,200,737	Walt et al.	3/13/2001

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[Handwritten Initials]		6,203,814 B1	Fisher et al.	3/20/2001
		6,210,910	Walt et al.	4/3/2001
		6,214,552	Heroux, et al.	4/10/2001
		6,218,122	Friend et al.	4/17/2001
		6,231,744 B1	Ying et al.	5/15/2001
		6,232,706 B1	Dai et al.	5/15/2001
		6,239,273 B1	Pease et al.	5/29/2001
		6,255,469	Seeman et al.	7/3/2001
		6,270,946	Miller	8/7/2001
		6,278,231 B1	Iwasaki et al.	8/21/2001
		6,284,497 B1	Sabanayagam et al.	9/4/2001
		6,287,850 B1	Besemer et al.	9/11/2001
		6,289,717	Thundat et al.	9/18/2001
		6,309,831 B1	Goldberg et al.	10/30/2001
		6,329,209 B1	Wagner et al.	12/11/2001
		6,331,396 B1	Silverman	12/18/2001
		6,346,189	Dai et al.	2/12/2002
		6,350,609	Morozov et al.	2/26/2002
		6,395,554	Regan et al.	5/28/2002
		6,406,921 B1	Wagner et al.	6/18/2002
		6,416,952	Pirrung et al.	7/9/2002
		6,420,105	Landfield et al.	7/16/2002

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QE		6,436,647 B1	Quate et al.	8/20/2002
		6,518,168	Clem et al.	2/11/2003
		6,573,369	Henderson et al.	6/3/2003
		6,635,311	Mirkin et al.	10/21/2003
		6,722,395	Overbeck	4/20/2004
		2002/0042081	Henderson et al.	4/11/2002
		2002/0063212	Mirkin et al.	5/30/2002
		2002/0076927	Henderson et al.	6/20/2002
		2002/0114987	Oscarsson et al.	8/22/2002
		2002/0122873	Mirkin et al.	9/5/2002
		2002/0123135	Henderson et al.	9/5/2002
		2002/0146714	Lieber et al.	10/10/2002
		2002/0172943	Henderson et al.	11/21/2002
		2002/0179434	Dai et al.	12/5/2002
		2002/0179434	Dai et al.	12/5/2002
C		2003/0013111	Henderson et al.	1/16/2003

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
Patent 95		8094646	SHIMADZU CORP	4/12/1996		
Patent 95		7027771	HITACHI LTD.	1/31/1995		
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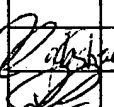

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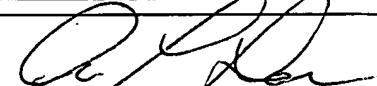
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FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	JP	6124680	JEOL LTD.	1994		
	WO	92/15709	ABBOTT LABORATORIE	9/17/1992		
	WO	96/31775	OSCARSSON	10/10/1996		
	WO	97/06420	BENSIMON	2/2/1997		
	WO	97/18326	PASTEUR INSTITUTE	5/22/1997		
	WO	98/05920	WILLIAM MARSH RICE UNIVERSITY (COLBERT)	2/12/1998		
	WO	98/18959	PASTEUR INSTITUTE	5/7/1998		
	WO	99/31267	SEPRACOR INC.	6/24/1999		
	WO	99/44063		9/2/1999		
	WO	00/04382	ZYOMYX, INC.	1/27/2000		
	WO	00/04389	ZYOMYX, INC.	1/27/2000		
	WO	00/04390	ZYOMYX, INC.	1/27/2000		
	WO	00/36136	PALATIN TECHNOLOGIES, INC.	6/22/2000		
	WO	00/41213	NORTHWESTERN UNIVERSITY	7/13/2000		
	WO	00/46406	ALPHAGENE, INC.	8/10/2000		
	WO	01/60316	OSCARSSON, SVEN	8/23/2001		
WO	01/918555	NORTHWESTERN UNIVERSITY	12/6/2001			
	WO	03/001633	NORTHWESTERN UNIVERSITY	1/3/2003		

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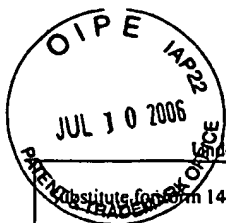
Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
Examiner Name	Unknown				
Sheet	7	of	7	Attorney Docket Number	016348-9048-US00

U.S. PATENT DOCUMENTS						
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document		
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
RL	WO	03/036767	UNIVERSITY OF ILLINOIS	5/1/2003		
I	WO	03/038033	NORTHWESTERN UNIVERSITY	5/8/2003		
I	WO	03/048314	MIRKIN	6/12/2003		
I	WO	03/052514	NORTHWESTERN UNIVERSITY	6/26/2003		

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				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown <i>Law</i>
				Attorney Docket Number	016348-9048-US00
Sheet	1	of	1		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
<i>EP</i>		"FluoSpheres Fluorescent Microspheres -- Product Information," Molecular Probes, Invitrogen Detection Technologies (2005) retrieved from the Internet: http://probes.invitrogen.com/media/pis/mp05000.pdf (XP-002378381)
<i>EP</i>		HOWLAND, R. et al., "A Practical Guide to Scanning Probe Microscopy," Thermomicroscopes (2002) retrieved from Internet: http://web.mit.edu/cortiz/www/AFMGallery/PracticalGuide.pdf (XP-002377197)
<i>EP</i>		LI, S. et al., "Regression of tumors by IFN- α electroporation gene therapy and analysis of the responsible genes by cDNA array," Gene Therapy (2002) 9:390-397
<i>EP</i>		MCKENDRY, R. et al., "Multiple label-free biodetection and quantitative DNA-binding assays on a nanomechanical cantilever array," PNAS (2002) 99(15):9783-9788
<i>EP</i>		NISHIDA, S. et al., "Combination of AFM with an objective-type total internal reflection fluorescence microscope (TIRFM) for nanomanipulation of single cells," Ultramicroscopy (2002) 91:269-274
<i>EP</i>		OAK RIDGE NATIONAL LABORATORY, "Finding New Uses for Carbon Nanofibers," ORNL Review (2002) 35(3), retrieved from the Internet: http://www.ornl.gov/info/ornlreview/v35_3_02/improving.shtml (XP-002377196)
<i>EP</i>		PEREIRA, R., "Atomic force microscopy as a novel pharmacological tool," Biochem. Pharma (2001) 62:975-983
<i>EP</i>		VO-DINH, T. et al., "Antibody-based nanoprobe for measurement of a fluorescent analyte in a single cell," Nature Biotech. (2000) 18:764-767
<i>EP</i>		WU, G. et al., "Origin of nanomechanical cantilever motion generated from biomolecular interactions," PNAS (2001) 98(4):1560-1564

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	Application Number	10/541,013
	Filing Date	June 28, 2005
	First named Inventor	Eric Henderson
	Group Art Unit	1641
	Examiner name	Unknown <i>Cam</i>
Attorney Docket Number		016348-9048-US00
U.S. Patent Documents		

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
<i>CE</i>	6,395,562	Hammock et al.	5/28/2002
<i>CE</i>	2001/044106	Henderson et al.	11/22/2001
<i>CE</i>	2002/164656	Hoeffler et al.	11/7/2002
<i>CE</i>	2003/0228695	Nakamura et al.	12/11/2003

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
<i>CE</i>	EP	1063287	Karube et al.	12/27/2000		
<i>CE</i>	WO	02/31183	Bioforce Laboratory, Inc.	4/18/2002		

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